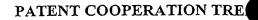
# Translation





# PCT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference D3-A0204P	FOR FURTHER ACT	TION	See Form PCT/IPEA/416		
International application No. PCT/JP2003/011299	_		Priority date (day/month/year) 04 September 2002 (04.09.2002)		
	International filing date (day/month/year) O4 September 2003 (04.09.2003) O4 September 2002 (04.09.2002) O4 September 2003 (04.09.2003) O4 September 2002 (04.09.2002) O4 September 2002 (04.09.2002) O4 September 2002 (04.09.2002) O5 September 2002 (04.09.2002) O5 September 2002 (04.09.2002) O5 September 2002 (04.09.2002) O6 September 2002 (04.09.2002) O6 September 2002 (04.09.2002) O7 September 2002 (				
Applicant	DNAVEC RESE	EARCH INC.			
• '		ncluding this cover s	heet.		
	· -	eau) a total of	sheets, as follows:		
sheets of the desc	ription, claims and/or dra taining rectifications auth	wings which have b			
sheets which super beyond the disclo Supplemental Box	sure in the international a	which this Authority application as filed,	y considers contain an amendment that goes as indicated in item 4 of Box No. I and the		
1 disk form only, as indicated	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))				
This report contains indications relations	This report contains indications relating to the following items:				
Box No. I Basis of the re	port				
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observ	vations on the internationa	al application			
Date of submission of the demand	1	Date of completion	of this report		
17 February 2004 (17.02	2.2004)	09 Se	ptember 2004 (09.09.2004)		
Name and mailing address of the IPEA/JP		Authorized officer			
Facsimile No.		Telephone No.			



## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

hational application No.
PCT/JP2003/011299

Box No. I	Basis of the report
	gard to the language, this report is based on the international application in the language in which it was filed, unless see indicated under this item.
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
furnish	egard to the elements of the international application, this report is based on (replacement sheets which have been ed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" onto annexed to this report):
	The international application as originally filed/furnished
	he description:
-	ages, as originally filed/furnished
1	ages*received by this Authority on
F	ages*received by this Authority on
l l	he claims:
-	ages, as originally filed/furnished
1	nages*, as amended (together with any statement) under Article 19
_	received by this Authority on received by this Authority on received by this Authority on
l '	ages
'	he drawings:
Ī	pages, as originally filed/furnished
	received by this Authority on
'	sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. 🔲 🦪	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
- '	This report has been established as if (some of) the amendments annexed to this report and listed below had not been nade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Rule 70.2(c)).  the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
·	
* If item	4 applies, some or all of those sheets may be marked "superseded."



### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

national application No.

PCT/JP2003/011299

	PC1/3F200.	0/011299
Supplemental Box Relating to Sequence Listing		
Continuation of Box No. 1, item 2:		
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international invention, this report was established on the basis that of:	application and necessa	ary to the claimed
a. type of material		
a sequence listing		
table(s) related to the sequence listing		
b. format of material	* .	
in written format		
in computer readable form		i
c. time of filing/furnishing	•	Ð
contained in the international application as filed		
filed together with the international application in computer readable form		*
furnished subsequently to this Authority for the purpose of search and/or exa	mination	
	·	
received by this Authority as an amendment* on		
2. In addition, in the case that more than one version or copy of a sequence listing an or furnished, the required statements that the information in the subsequent or addition as filed or does not go beyond the application as filed, as appropriate, version or copy of a sequence listing and or furnished.	itional copies is identica	
3. Additional comments:		•
		i
		,
. An		
		•
·		
* If item 4 in Box No. I applies, the listing and /or table(s) related thereto, which form paragraphs superseded".	ırt of the basis of the re	port, may be marked

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

national application No. PCT/JP 03/11299

٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

. Statement		<i>x</i> -	
Novelty (N)	Claims	1-4, 7-10	YES
	Claims	5-6	NO
Inventive step (IS)	Claims		YES
	Claims	1-10	NO .
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

### 2. Citations and explanations

- Document 1: Ping Yang, et al., "Hemagglutinin Specificity and Neuraminidase Coding Capacity of Neuraminidase-Deficient Influenza Viruses", Virology, 1997, Vol. 229, No. 1, pages 155 to 165
- Document 2: WO 01/92508 A1 (Dnavec Research Inc.), 6
  December 2001
- Document 3: Jiangfeng Sun, et al., "Neuraminidase from a

  Bacterial Source Enhances Both HIV-1-Mediated

  Syncytium Formation and the Virus

  Binding/Entry Process", Virology, 2001, Vol.

  284, No. 1, pages 26 to 36
- Document 4: Valerie Bosch et al., "Inhibition of release of lentivirus particles with incorporated human influenza virus haemagglutinin by binding to sialic acid-containing cellular receptors", Journal of General Virology, 2001, Vol. 82, pages 2485 to 2494
- Document 5: Amy H. Lin, et al., "Use of pseudotyped retroviral vectors to analyze the receptor-binding pocket of hemagglutinin from a pathogenic avian influenza A virus (H7 type)", Virus Research, 26 February 2002, Vol. 83, No. 1-2, pages 43 to 56